of 30,538 MW for the Eighth Five Year Plan, a capacity of 16,423 MW has been added through various sources.

(b) and (c) As per the preliminary exercises taken by the Government, the capacity addition of 40,226 MW is assessed to be feasible during the period 1997-98 to 2001-02. If this capacity materialises, the all India energy deficit would be only 1.4% by the end of Ninth Five Year Plan. Better Utilisation of existing capacities,, reduction in transmission and distribution losses and better demand management would help to bridge this gap.

निर्माणाधीन विद्युत परियोजनाएं

71. **श्री बरजिन्दर सिंह हमदर्द:**
श्री बलवन्त सिंह रामूवालिया:

क्या विद्युत मंत्री यह बताने की कृपा करेंगे कि:

(क) क्या यह सच है कि 1997 के अंत में देश में अनेक विद्युत परियोजनाएं निर्माणाधीन थीं;

(ख) यदि हां, तो ऐसी कितनी परियोजनाएं थीं और उत्पादन तथा संप्रेषण आदि से जुड़ी परियोजनाएं अलग-अलग कितनी थीं;

(ग) क्या यह भी सच है कि इनमें से अधिकांश परियोजनाएं अपनी मूल समय-सीमा से पिछड़ गयी हैं; और

(घ) यदि हां, तो ऐसी परियोजनाएं कितनी हैं और उनके निर्माण की मूल लागत कितनी अनुमानित थी और अब उनके निर्माण पर कितना व्यय होना अपेक्षित है और इन परियोजनाओं के कब तक पूरा होने की संभावना है?

विद्युत मंत्री (श्री रंगराजन कुमारमंगलम): (क) से (घ) सूचना एकत्र की जा रही है और सभा पटल पर रख दी जाएगी।

Bidding for power contracts

72. SHRI DIPANKAR MUKHERJEE: Will the Minister of POWER be pleased to state:

(a) whether Government's attention have been drawn to the news-item captioned "Bidding for power contracts lacks transparency: BHEL" which appeared in Pioneer, New Delhi dated the 3rd April, 1998;

(b) if so, Government's reaction thereto; and

(c) whether his Ministry has taken up the issue with BHEL to ensure level playing field vis-a-vis international *equipment suppliers?*

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) Yes Sir.

(b) and (c) Government of India vide their letter dated June 28, 1996 had advised the State Governments that all project which have not yet finalised their EPC contracts should be required to go in for international competitive Biddings (ICBs) *in selection of their* EPC contracts. The States had been further advised that in case of independent Power Producers (IPPs) which have informed that their EPC contract has been finalised, the State Electricity Boards (SEBs) should satisfy themselves and that it is indeed so and in cases where it is not finalised, the SEBs should ensure that the ICB route adopted is transparent and proper.

No specific complaint has been received from Bharat Heavy Electricals Limited (BHEL) on the violation of ICB norms.

विद्युत उत्पादन में वृद्धि करना

73. **श्री अखिलेश दास:** क्या विद्युत मंत्री यह बताने की कृपा करेंगे कि:

(क) नौवीं योजना के दौरान विद्युत उत्पादन को किस सीमा तक बढ़ाया जायेगा और इस उद्देय के लिए बनाई गई योजनाओं का ब्यौरा क्या है;

(ख) क्या उत्पादन के वांछित लक्ष्यों में कमी को निजी क्षेत्र की सहायता से पूरा किया जायेगा;

(ग) यदि हां, तो ब्यौरा क्या है; और

(घ) इस विषय में अनुसंधान से संबंधित कार्यक्रमों और शुरू किये गये विकास कार्यों के नाम क्या क्या हैं और उनका ब्यौरा क्या है?

विद्युत मंत्री (श्री रंगराजन कुमारमंगलम): (क) से (ग) नौवीं योजना हेतु लगाए गए कार्यकारी अनुमान के अनुसार 1997-98 से 2001-02 की अवधि के दौरान 1820 मे० वा० जल विद्युत 16337 मे०वा० ताप विद्युत, 13189 मे०वा० गैस (तरल ईंधन सहित) तथा 880 मे०वा० न्यूक्लीय सहित 402226 मे०वा० की क्षमता अभिवृद्धि संभाव्य होने का अनुमान है। क्षेत्रवार क्षमता अभिवृद्धि केन्द्रीय क्षेत्र में 11909 मे०वा०, राज्य क्षेत्र में 10748 मे०वा० तथा निजी क्षेत्र में 17569 मे०वा० होने की परिकल्पना की गई है। यदि वह क्षमता साकारभूत होती है तो नौवीं योजना के अन्त में अखिल भारत ऊर्जा की कमी 1.4% होगी।

(घ) अनुसंधान एवं विकास एक सतत् प्रक्रिया है तथा जब कभी भी व्यवहार्य हो, इन कार्यक्रमों के परिणामों को डिजाईन, निर्माण एवं परीक्षण प्रौद्योगिकियों में शामिल किया जाता है। महत्वपूर्ण अनुसंधान एवं विकास कार्यक्रम एचवीडीसी परियोजना, उच्च वोल्टता के अंतर्गत उपस्करों का परीक्षण, पारेषण टावरों का बेहतर डिजाईन, उत्पादन, पारेषण एवं वितरण सुविधाओं के प्रचालन एवं अनुरक्षण की बेहतर पद्धतियां हैं।

Purchase of Power from Pakistan

74. DR. Y. LAKSHMI PRASAD:
SHRI KULDIP NAYYAR:

Will the Minister of POWER be pleased to state:

(a) whether Government have finally agreed to purchase power from Pakistan and exchange of power between West Bengal and Bangladesh;

(b) if so, the quantum of power likely to be purchased annually from Pakistan and the rate thereof;

(c) the number of years for which the agreement for purchase of power has been reached;

(d) whether the offer for sale of power was made by Pakistan through international financial institutions;

(e) if so, the details of these institutions;

(f) whether Government have estimated the expenditure likely to be incurred on the arrangements of power transmission from Pakistan; and

(g) if so, the details thereof?

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) No, Sir.

(b) to (g) The Pakistan High Commission, in May, 1997 conveyed to the Government of India that the Government of Pakistan is considering a proposal to export electricity to India and sought technical details on the grid system in India. In response, Government of India conveyed its interest in the proposal in June, 1997 and suggested that technical, commercial and administrative issues should first be examined by a team of experts from India and Pakistan. The Government of India had offered to send a team of experts to Pakistan. Alternatively, it was suggested that the Government of Pakistan may depute an expert team to India. There has been no further progress in the matter.

Power Generation from Liquid Fuels

75. SHRI SOLIPETA RAMACHANDRA REDDY:
DR. MOHAN BABU:

Will the Minister of POWER be pleased to state:

(a) what is the target for power generation from liquid fuels by the year 2000;

(b) whether any plants are already in an advanced stage of construction; and

(c) if so, the details of the status of power generation based on liquid fuels?

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) to (c) A total liquid fuel based power capacity of about 12,000 MW has been given fuel linkage for the country as a whole. This has been allocated to various States, who in turn have allocated this to individual projects. Based on the State Government's recommendtions, linkages have been given for these projects. Two independent power producers namely M/s Magnum Power and M/s BSES have